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PROTEIN DNA (TRANSCRIPTION) (TRANSLATION) F16.1

F16.2

OLIGONUCLEOTIDE

MENA HYBRID

OLIGONUCLEOTIDE

OLIGONUCLEOTIDE

OLIGONUCLEOTIDE tRNA PIBOSOMES TRANSLATION FACTORS DNA FOR T PROTEIN () MENA FOR T PROTEIN

POLYRIBOSOME

RECTION OF TRANSLATION

RIBOSOMES TRANSLATION TRANSLATION HALTED

NO (OR INCOMPLETE)

F1G.3

OLIGONUCLEOTIDE SPECIFIC FOR SV-40 T PROTEIN

VIRAL DNA(CODING) 3'...GAAACGTTTCTACCTATTTC...5'

VIRAL T PROTEIN

MRNA 5'...CUUUGCAAAGAUGGAUAAAG...3'

T PROTEIN SPECIFIC
OLIGONUCLEOTIDE 3'...GAAACGTTTCTACCTATTTC...5'

FIG.7

OLIGONUCLEOTIDE SPECIFIC FOR FOLLICLE STIMULATING __HORMONE

PROTEIN BEOVENCE:

. N TERMINUS ... THR TRP CYS ALA GLY TYR CYS TYR THR ... C TERMINU.

MRNA PREDICTED:

STEND ACK UGG UGC GCK GGX VAC UGU VAC ACK 3'END

PSH DLIGONUCLEOTIDE FAMILY:

FIND TOG ACC ACG CGG COG ATG ACG ATG TG- S'END

7.011.

CONSTRUCTION DE HIGH YIELD PLASMID CONTAINING - THE T PROTEIN OLIGONUCLEOTIDE

0 C T T T A T C C A T C T T T G C B A B & C C T T T C C A T C C A T A G A A A C G T T T C C A

CTAAGCTTAG GATTCGAATC

LINKER

SV40 T PROTEIN OLIGONUCLEOTIDE (DOUBLE STRANDED)

ALENTLY CLOSED CIRCLE)

7-4 DNA LIGASE

SI NUCLEATE PEMOVE COHESIVE ENDS)

HIND III NUCLEASE (CLEAVES IN TOT GENE)

CTAAGCTTAGCTTTATCCATCTTTGCAAAGCTAAGATT LINKER T PPOTEIN OLIGONUCLEOTIDE

PBR322 (CHOPPED)

ACTAAGETTAGETTTATCCATCTTTGCAAAGCTAAGCTTAG

PT PROTEIN OLIGONUCLEOTIDE 1 (Tes, Apr)
(ONE STRAND SHOWN)

T-4 LIGASE

FIG.5

PRODUCTION OF SV-40 T PROTEIN OLIGONUCLEOTIDE FROM PT OLIGONUCLEOTIDE USING RESTRICTION NUCLEASE CLEAVAGE TO RELEASE FRAGMENTS.

-ACTAAGCTTAGCTTTATCCATCTTTGCAAAGCTAAGCTTAGT

PROTEIN OLIGONUCLEOTIDE I

RESTRICTION NUCLEASE HIND III (CLEAVES AT AAGCTT)

- ACTA | ACCTTACCTTTATCCATACTTTCCAAACCTA | ACCTTAGT-- TGATTCGA | ATCGAAATAGGTATGAAACGTTTCGA | ATCA-

(REMOVED BY GEL FILTRATION)

LINKER T PROTEIN
OLIGONUCLEOTIDE - LINKER

ALU I RESTRICTION— NUCLEASE (CLEAVES AGCT)

+ DIALYSIS TO REMOVE

CTTTATCCATCTTTGCAAAG.GAAATAGGTATC

T PROTEIN OLIGONUCLEOTIDE

PROCESS TO MAKE SINGLE STRAND
OLIGONUCLEOTIDE IN PHOSPHOTRIESTER
FORM

CTTTATCCATCTTTGCAAAG T-PROTEIN OLIGONUCLEOTIDE (POLYPHOSPHOTRIESTER)

FIG.6

ACETYLATED DNA (BASE PROTECTED)